

Appl. No. 10/715,927
Amdt. dated 05/09/2005
Response to Office Action of 04/15/2005

Attorney Docket No.: E0523-00017

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

- 1 1. (Original) A solid-state display comprising:
 - 2 a substrate including a plurality of LEDs and reflecting surfaces alternately
 - 3 deposited thereon; and
 - 4 a diffusing surface opposite said substrate including a transfective surface
 - 5 corresponding and opposite to each of said LEDs, wherein light emitted from said LEDs
 - 6 is reflected from said corresponding transfective surface, toward said reflecting surface.
- 1 2. (Original) The display as recited in claim 1, wherein said transfective surface has
- 2 a known cross-sectional shape.
- 1 3. (Original) The display as recited in claim 2, wherein said cross-sectional shape is
- 2 selected from the group consisting of: square, rectangular, conic, triangular, semi-
- 3 spherical, spherical, oblong.
- 1 4. (Original) The display as recited in claim 1, wherein said substrate and diffusing
- 2 surface are sealed and a space therebetween evacuated.
- 1 5. (Original) The display as recited in claim 1, wherein said substrate reflective
- 2 surface is selected from the group consisting of: aluminum, gold, tin, copper.
- 1 6. (Currently Amended) The display as recited in claim 1, wherein said transfective
- 2 diffusing surface is selected from the group consisting of: SiO₂, TiO₂.
- 1 7. (Original) The display as recited in claim 1, wherein said transfective surface has
- 2 a known reflectivity and transmission characteristic.

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1 8. (Original) The display as recited in claim 7, wherein said reflectivity of said
2 transfective surface is in the range of 10 to 90 percent.

1 9. (Original) The display as recited in claim 1, wherein said reflective surface is
2 positioned lateral to a corresponding LED.

1 10. (Original) The display as recited in claim 9, wherein said reflective surface is
2 further positioned perpendicular to said lateral reflective surface.

1 11. (Currently Amended) The display as recited in claim 1, wherein said transfective
2 surface has a shape [is] selected from the group consisting of: square, rectangular,
3 circular, triangular.

1 12. (Currently Amended) A method for increasing the color-mixing area of a LED
2 display comprising the steps of:

3 depositing a reflective layer between at least adjacent rows or columns of LEDs
4 positioned on a substrate; and

5 depositing a transfective surface on a diffusing surface opposite and proximate
6 to corresponding selected ones of said LEDs, wherein said transfective surface is
7 operable to reflect light emitted from said LEDs to said reflective surface.

1 13. (Original) The method as recited in claim 12, wherein said transfective surface
2 has a known cross-sectional shape.

1 14. (Original) The method as recited in claim 13, wherein said cross-sectional shape
2 is selected from the group consisting of: square, rectangular, conic, triangular, semi-
3 spherical, spherical, oblong.

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1 15. (Original) The method as recited in claim 12, wherein said substrate and diffusing
2 surface are sealed and a space therebetween evacuated.

1 16. (Original) The method as recited in claim 12, wherein said substrate reflective
2 surface is selected from the group consisting of: aluminum, gold, tin, copper.

1 17. (Currently Amended) The method as recited in claim 12, wherein said
2 ~~transflective~~ diffusing surface is selected from the group consisting of: SiO₂, TiO₂.

1 18. (Original) The method as recited in claim 12, wherein said transflective surface
2 has a known reflectivity and transmission characteristic.

1 19. (Original) The method as recited in claim 18, wherein said reflectivity of said
2 transflective surface is in the range of 10 to 90 percent.

1 20. (Original) The method as recited in claim 12, wherein said reflective surface is
2 deposited lateral to a corresponding LED.

1 21. (Original) The method as recited in claim 20, wherein said reflective surface is
2 further deposited perpendicular to said lateral reflective surface.

1 22. (Currently Amended) The method as recited in claim 12, wherein said
2 transflective surface has a shape [is] selected from the group consisting of: square,
3 rectangular, circular, triangular.